THOMSON
DIALOG

304

# The Merck Index Online℠

## FILE DESCRIPTION

**The Merck Index Online℠** is the online version of the monographs in the printed 12th Edition of *The Merck Index* (a U.S. publication, Whitehouse Station, N.J., USA), an internationally recognized, one-volume encyclopedia of chemicals, drugs, and biologicals. Each monograph in the encyclopedia (each record in the database) discusses a single chemical entity or a small group of very closely-related compounds. Updates contain material not yet available in print.

Records contain molecular formulas and weights, systematic chemical names (including CAS names), generic and trivial names, brand names and their associated companies, company codes, CAS Registry numbers, physical and toxicity data, therapeutic and commercial uses, and bibliographic citations to the chemical, biomedical, and patent literature.

## SUBJECT COVERAGE

The database includes, but is not limited to, monographs on the following types of compounds:

- Agricultural chemicals (including pesticides and herbicides)
- Biological products
- Environmentally significant compounds
- Human drugs
- Natural products
- Organic and inorganic chemicals used in commerce and research
- Veterinary drugs

## SOURCES

Records contain information from and citations to approximately 700 international chemical, biomedical, and clinical journals; patents issued by more than 20 countries; books; proceedings; and other standard reference works.

## DIALOG FILE DATA

Inclusive Dates: Late 19th Century to the present
Update Frequency: Semi-Annual
File Size: 10,430 records as of February 1998

## CONTACT

The Merck Index Online is produced by Merck & Co., Inc., Whitehouse Station, NJ, USA. Questions concerning file content should be directed to:

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# File 304
# SAMPLE RECORD

## The Merck Index Online℠

| | |
|---|---|
| | DIALOG(R)File 304:The Merck Index Online(SM)<br>(c) 1996,1997 MERCK & CO. INC. All rts. reserv. |
| AN=,/MN,MN=,/DE,/NA,NA=,/MAIN | 03605 Monograph Name: Enalapril |
| RN= | CAS REGISTRY NUMBER: 75847-73-3 |
| MF=, MW= | MOLECULAR FORMULA: C20H28N2O5 MOLECULAR WEIGHT: 376.45 |
| | MOLECULAR COMPOSITION: C 63.81%, H 7.50%, N 7.44%, O 21.25% |
| /CN, CN=, /NA, NA=, /DE | C.A. CHEMICAL NAME(s): (S)-1-(N-(1-(Ethoxycarbonyl)-3-phenylpropyl)-L-alanyl)-L-proline |
| /SY, SY=, /NA, NA=, /DE | SYNONYMS:<br>1-(N-((S)-1-carboxy-3-phenylpropyl)-L-alanyl)-L-proline 1'-ethyl ester |
| /S0, SO= | LITERATURE REFERENCES:<br>Angiotensin-converting enzyme (ACE) inhibitor; de-esterified in vivo to its active diacid metabolite, enalaprilat, q.v. Prepn: A. A. Patchett et al., Nature 288, 280 (1980); eidem, Eur. pat. Appl. 12,401; E. E. Harris et al., U.S. pat. 4,374,829 (1980, 1983 both to Merck & Co.). Pharmacology: D. M. Gross et al., J. Pharmacol. Exp. Ther. 216, 552 (1981); C. S. Sweet et al., ibid. 558. Bioavailability and metabolism: E. H. Ulm, Drug Metab. Rev. 14, 99 (1983). Comprehensive description: D. P. Ip, G. S. Brenner, Anal. Profiles Drug Subs. 16, 207-243 (1987). Clinical trial in congestive heart failure: Consensus Trial Study Group, N. Engl. J. Med. 316, 1429 (1987). Review of clinical experience in hypertension: H. J. Gomez et al., J. Cardiovasc. Pharmacol. 15, Suppl. 3, S26-S29 (1990); of clinical pharmacokinetics: R. J. MacFadyen et al., Clin. Pharmacokinet. 25, 274-282 (1993); of combination with hydrochlorothiazide: P. L. Malini, Adv. Ther. 10, 253-262 (1993). |
| PN= | PATENT INFORMATION:<br>EP 12401; US 4374829 |
| /DERIV | DERIVATIVE INFORMATION: |
| /SY, SY=, /NA, NA=, /DE | SUBSTANCE: Enalapril Maleate |
| RN= | DERIVATIVE CAS RN: 76095-16-4 |
| MF= | DERIVATIVE MOL. FORMULA: C20H28N2O5.C4H4O4 |
| /SY, SY=, /NA, NA=, /DE | DERIVATIVE DRUG CODES: MK-421 |
| /TN, TN=, /SY, SY=, /NA, NA=, /DE | DERIVATIVE BRAND NAME (COMPANY): Amprace (Amrad), Bitensil (UCB), Cardiovet (Intervet), Enacard (Merck & Co.), Enaloc (Leiras), Enapren (Merck & Co.), Glioten (Bago), Hipoartel (Lasa), Innovace (Merck & Co.), Lotrial (Roemmers), Olivin (Lek), Pres (Dieckmann), Renitec (Merck & Co.), Reniten (Merck & Co.), Renivace (Banyu), Vasotec (Merck & Co.), Xanef (Merck & Co.) |
| /C0, CO= | DERIVATIVE PHYSICAL DATA: White to off-white crystalline powder, mp 143-144.5 degrees. Soly (g/ml): water 0.025; alcohol 0.08; methanol 0.20. (.alpha.)D25 -42.2 degrees (c = 1 in methanol). pH (1% water) 2.6. pKa1 3.0; pKa2 (25 degrees ) 5.4. |
| /PP, PP= | MELTING POINT: 143-144.5 degrees |
| | OPTICAL ROTATION: (.alpha. D): -42.2 degrees (c = 1 in methanol) |
| MP=, MT= | SUBSTANCE: Enalapril Mixture of maleate with hydrochlorothiazide |
| OP=, OT= | DERIVATIVE BRAND NAME (COMPANY): Acesistem (Sigma-Tau), Co-Renitec (Merck & Co.), Innozide (Merck & Co.), Renacor (Merck & Co.), Vaseretic (Merck & Co.), Xynertec (Merck & Co.) |
| /SY, SY=, /NA, NA=, /DE | THERAPEUTIC CATEGORY: Antihypertensive. |
| /TN, TN=, /SY, SY=, /NA, NA=, /DE | THERAPEUTIC CATEGORY VET: In treatment of heart failure in dogs. |
| /CO, CO= | REFERENCE KEYS PRESENT: Clinical trial; In Vivo; Patent number; Pharmacology; Prepn; Review |
| /TC, TC= | DATA KEYS PRESENT: Molecular weight; Patent number; Therap. Cat.; Therap. Cat. Vet. |
| /TC, TV= | DATA KEYS PRESENT IN DERIVATIVE: Melting point; Optical rotation |
| /DP, RP= | |
| /DP, DP= | |
| /DP, DP=, /DERIV | |

## BASIC INDEX

| SEARCH SUFFIX | DISPLAY CODE | FIELD NAME | INDEXING | SELECT EXAMPLES |
|---|---|---|---|---|
| — | — | All Basic Index Fields | Word | S ETHOXYCARBONYL(1W)PHENYLPROPYL |
| /CN | CN | CA Chemical Name[1,2] | Segment & Word & Phrase | S PROPYL/CN<br>S ETHOXYCARBONYL(1W)PHENYLPROPYL/CN<br>S "S)-1-(N-(1-(ETHOXYCARBONYL)-3"?/CN |
| /CO | CO | Company Name[1] | Word | S MERCK/CO |
| /DE | DE | Chemical Name | Segment & Word & Phrase | S PHENYL/DE<br>S ENALAPRIL(W)MALEATE/DE<br>S ENALAPRIL MALEATE/DE |
| /DP | DP | Data Present[1,3] | Word | S MELTING(W)POINT |
| /EC | MF | Element Count[2] | Phrase | S (C20(S)N2)/EC |
| /MN | MN | Monograph Name[1] | Segment & Word & Phrase | S CHLORIDE/MN<br>S ENALAPRIL/MN<br>S ANTIMONY TRICHLORIDE/MN |
| /NA | NA | Chemical Name[1] | Segment & Word & Phrase | S PHENYL/NA<br>S ENALAPRIL(W)MALEATE/NA<br>S ENALAPRIL MALEATE/NA |
| /NT | NT | Notes and Cautions | Word | S MORDANT(S)CATALYST/NT |
| /PP | PP | Physical Property Information[3] | Word | S WHITE(1W)POWDER/PP |
| /SO | SO | Sources/References[4] | Word | S ACADEMIC(W)PRESS/SO<br>S U(W)S(W)PAT?/SO |
| /SY | SY | Synonyms Including Brand Names and Drug Codes[1,2] | Segment & Word & Phrase | S AL/SY,DERIV<br>S CO(W)RENITEC/SY<br>S CO-RENITEC/SY |
| /TC | TC | Therapeutic Category[6] | Word | S ANTIHYPERTENSIVE/TC |
| /TN | TN | Brand Name[1,2] | Segment & Word & Phrase | S AL/TN<br>S LOTRIAL/TN,DERIV<br>S CO-RENITEC/TN |

[1] Searchable in the Basic Index and in the Additional Indexes. Any numeric values are searchable in the Basic Index using the (W) operator, e.g. S 143(W)144(W)5/PP

[2] All chemical names are indexed as complete phrases, individual words, and chemically significant segments of words. Use /FW to restrict retrieval to the complete term, e.g., S ETHANE/FW to only select ethane as a single word rather than as a segment of a larger chemical term, such as trichloroethane.

[3] Searchable as /DP in the Basic Index and using DP= or RP= in the Additional Indexes.

[4] Includes Monograph Name (/MN, MN=), C.A. Names (/CN, CN=), Brand Names (/TN, TN=), Derivative Names (/DERIV), Drug Codes (/SY, SY=), and Synonyms (/SY, SY=).

[5] Also /DF.

[6] Searchable using /TC in the Basic Index and using TC= or TV= in the Additional Indexes.

## ADDITIONAL INDEXES

| SEARCH PREFIX | DISPLAY CODE | FIELD NAME | INDEXING | SELECT EXAMPLES |
|---|---|---|---|---|
| AN= | AN | DIALOG Accession Number | Phrase | S AN=03521 |
| AN= | AN | THE MERCK INDEX Monograph Number | Phrase | S AN=03521 |
| BP= | BP | Boiling Point (Celsius)[1,7] | Numeric | S BP=223.5 |
| BT= | BP | Boiling Point Text[1] | Word | S BT=DEGREES |
| CN= | CN | C.A. Chemical Name[1] | Phrase | S CN=S)-1-(N-(1-(ETHOXYCARBONYL? |
| CO= | CO | Company Name[1] | Phrase | S CO=MERCK & CO? |
| DN= | DN | Relative Density[1,7] | Numeric | S DN=1.0000 |
| DP= | DP | Data Present[1,3] | Phrase | S DP=(BOILING POINT AND MELTING POINT) |
| DT= | DN | Density Text[1] | Word | S DT=SUPERCOOLED AND DN=1.0 |
| EC= | MF | Element Count[1] | Phrase | S EC=(C0020 AND H0028)<br>S EC=N0001:N0005 |
| FF= | FP | Flash Point (Fahrenheit)[1,7] | Numeric | S FF=84.2 |
| FP= | FP | Flash Point (Celsius)[1,7] | Numeric | S FP=29 |
| FT= | FP | Flash Point Text[1] | Word | S FT=(CLOSED(W)CUP) |
| LD= | LD | Lethal Dose (LD50)[1] | Word | S LD=(RATS AND S(W)C) |
| ME= | — | Molecular Elements | Phrase | S ME=CHNO |
| MF= | MF | Molecular Formula | Phrase | S MF=C20H28N2O5 |
| MN= | MN | Monograph Name[1] | Phrase | S MN=ENALAPRIL |
| MP= | MP | Melting Point[1,7] | Numeric | S MP=144 |
| MT= | MP | Melting Point Text[1] | Word | S MT=DEGREES |
| MW= | MW | Molecular Weight[7] | Numeric | S MW=376.45 |
| NA= | NA | Chemical Name[1,4] | Phrase | S NA=ENALAPRIL |
| OP= | OP | Optical Rotation[1,7] | Numeric | S OP=10.1:10.9 |
| OT= | OP | Optical Rotation Text[1] | Word | S OT=(ALPHA(S)22(S)546) |
| PN= | PN | Patent Number[1] | Phrase | S PN=US 4374829 |
| PP= | PP | Physical Property Information[1] | Word | S PP=(OFF(W)WHITE AND POWDER) |

## ADDITIONAL INDEXES (cont'd)

| SEARCH PREFIX | DISPLAY CODE | FIELD NAME | INDEXING | SELECT EXAMPLES |
|---|---|---|---|---|
| RE= | RE | Refractive Index[1,7] | Numeric | S RE=1.0:1.5 |
| RI= | RE | Refractive Index Text[1] | Word | S RI=(D(W)20) |
| RN= | RN | CAS(R) Registry Number | Phrase | S RN=75847-73-3 |
| | | | | S RN=75847-73-3/MAIN |
| | | | | S RN=76095-16-4/DERIV |
| RP= | RP | References Present[1] | Phrase | S RP=PHARMACODYNAMICS |
| SO= | SO | Bibliographic Sources[6] | Word | S SO=(FERGUSON(S)J(1W)CLIN(W)PHARMACOL?) |
| SY= | SY | Synonyms Including Brand Names and Drug Codes[1] | Word & Phrase | S SY=INNOVACE |
| | | | | S SY="1-(N-((S)-1-CARBOXY-3-PHENYLPROPYL"? |
| TC= | TC | Therapeutic Category[1] | Word | S TC=ANTIHYPERTENSIVE |
| TN= | TN | Brand Name[1] | Phrase | S TN=INNOVACE |
| TV= | TV | Therapeutic Category (Veterinary)[1] | Word | S TV=(ANABOLIC(W)STEROID |
| UD= | — | Update | Phrase | S UD=9999 |
| US= | US | Uses[1] | Word | S US=(MORDANT(S)LEATHER) |
| UT= | UV | Ultraviolet Maximum Text[1] | Word | S UT=ALCOHOL AND UV=235 |
| UV= | UV | Ultraviolet Maximum[1,7] | Numeric | S UV=260:265 |
| **DISPLAY ONLY** | | | | |
| — | B1 | Boiling Point (Derivative) | | |
| — | C1 | CA Chemical Name (Derivative) | | |
| — | C2 | Company Name (Derivative) | | |
| — | D1 | Data Present (Derivative) | | |
| — | D2 | Relative Density (Derivative) | | |
| — | FL | Flash Point (Derivative) | | |
| — | L1 | Lethal Dose (LD50) (Derivative) | | |
| — | M1 | Molecular Composition(Derivative) | | |
| — | M2 | Molecular Formula (Derivative) | | |
| — | M3 | Melting Point (Derivative) | | |
| — | M4 | Molecular Weight (Derivative) | | |
| — | MC | Molecular Composition | | |
| — | N1 | Chemical Names (Derivative) | | |
| — | N2 | Chemical Names, Additional (Derivative) | | |
| — | O1 | Optical Rotation (Derivative) | | |
| — | P1 | Physical Property Information (Derivative) | | |
| — | R1 | Refractive Index (Derivative) | | |
| — | R2 | CAS Registry Number (Derivative) | | |
| — | SB | Bibliographic Sources (Derivative) | | |
| — | SM | Synonyms (Derivative) | | |
| — | T1 | Brand Name (Derivative) | | |
| — | UM | Ultraviolet Maximum (Derivative) | | |

[7] Numeric values can be entered in several different ways: directly as a number, e.g. S BP=100:0; or in exponential notation, e.g. S BP=1E2. Letter abbreviations are also available: K for thousand; M for million, B for billion, e.g. S BP=0.5K:1.0K. To search a range of values, use a colon between starting and ending value, e.g. S BP=78:79 OR use numeric operators (>, <, >=, and <=), e.g. S 78<=BP<=79.

## SPECIAL FEATURES

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP MAP online.

| | | |
|---|---|---|
| **LIMIT** | **/DERIV** -- Information relating to the derivative data mentioned in the monograph<br>**/MAIN** -- Information relating to the main monograph substance data | S S2/DERIV<br>S S1/MAIN |
| **SORT** | **MF, MN, RN, TC** | SORT S2/ALL/MN<br>PRINT S2/5/1-20/TC |
| **RANK** | All phrase- and numeric-indexed fields in the Additional Indexes can be ranked. Other RANK codes include: DE | RANK NA<br>RANK BP S4 |
| **MAP** | MN, NA, PN, RN, SY | MAP RN TEMP S4<br>MAP SYRN TEMP S3 |

## PREDEFINED FORMAT OPTIONS

| NO. | DIALOGWEB FORMAT | RECORD CONTENT |
|---|---|---|
| 1 | -- | DIALOG Accession Number |
| 2 | -- | Full Record, except Literature References and Physical Data |
| 3 | Medium | Full Record, except Physical Data |
| 4 | -- | Full Record |
| 5 | -- | Full Record |
| 6 | Free | DIALOG Accession Number/Monograph Number, Monograph Name, CAS Registry Number, and Molecular Formula |
| 7 | Long | Full Record, except Literature References |
| 8 | Short | DIALOG Accession Number/Monograph Number, Monograph Name, CAS Registry Number, Molecular Formula, Therapeutic Categories, References Present, Data Present |
| 9 | Full | Full Record |
| K | -- | KWIC (Key Word In Context) displays a window of text; may be used alone or with other formats |

## OTHER OUTPUT OPTIONS

For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

| | | |
|---|---|---|
| **USER DEFINED FORMATS** | Display codes listed in the Search Options tables can be used to customize output. | TYPE S3/MN,MF,MP,BP/1-10 |
| **TAG** | Output can be displayed with tags identifying each display field. | TYPE S3/3/1-5 TAG |
| **DIRECT RECORD ACCESS** | If the accession number of a specific record is known, it can be used to display the record directly. | TYPE 03521/5<br>DISPLAY 03521/MN,MF,MP<br>PRINT 03521/9 |

## FOR ONLINE HELP:

See HELP FIELDS 304 for searchable fields; HELP FORMAT 304 for output formats; HELP LIMIT 304 for limits; HELP RATES 304 for cost information; HELP SORT 304 for sorts.


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